¥	<u>CONSTRUC</u>	CTION PLAN	AS BUILT PLAN (2018 IN THE FIE	COMPLETED 8-21
PRACTICE(S) <u>Lined Wo</u>	<u>iterway or Outlet 468</u>	8	THE OFFICE BY	BRENT EDLIN
	TER RUNOFF CONTRO			
LANDOWNER_Long_L	ake Township	MICK GIVENS	- CHAIRMAN	
ADDRESS N 15	584 COUNTY HWY MD)		
LANDOWNER PHONE N	_{0.} (715) 354–7623	COUNTYW	ASHBURN	
TOWNSHIP <u>Long</u> La	ke	T <u>37N</u> N,	R <u>11W</u> E	/W, Sec. <u>16</u>
FIELD OFFICE Washburn	Co Land Conservation	TELEPHONE N	IO. <u>715 468</u> –4	-654
DIGGERS HOTLINE Call 3 Work Days Before You Dig! Nationwide 811 Toll Free 1-800-242-8511 TDD 1-800-542-2289 Website www.diggershotline.com	JESS LAUNDROMA	COUNTY HWY M TODD RD	EAS, SOE RO ON WHAT	One Inch = Two Miles LOCATION MAP
NO	TICE TO LANDOWN	ERS AND EXC	CAVATORS	
Any representation made by the LCD, as to the approximate loc owner of the property or the e of the pending construction. You Call Diggers Hotline!	e USDA, Natural Resource ation or nonexistence of xcavator that is hired to u will be liable for dama	es Conservation S above or under complete constr ages resulting fro	Service, or the _ ground hazards ruction, from not	ifying Diggers Hotline
CONSTRUCTIO	N DRAWINGS AND	SPECIFICATION	ONS ACCEPTA	ANCE
I have reviewed and understand accordingly. Failure to meet the assistance or program cost sho necessary permits and licenses, Modification of these construction I assume all responsibility for r	nese plans and specificat oring applied for. I unde and to complete the w on plans or specifications	tions may jeoparc erstand that it is ork in accordance s must be approv	dize any continue my responsibility e with all local, ved by the NRCS	ed NRCS technical y to secure all state, and federal laws. before installation.
Landowner Signature:				
Designed by: <u>Brent</u> E	dlin		_ Date:	
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and the second s				
The installed practices comply construction plans (as—built dr	awings) reflect changes	made during co	nstruction.	
Construction Approved by:Lined Waterway	or Outlet 468 - JAC I	<u> </u>	_ Date:	
Job Approval Class STORMWATER R	UNOFF CONTROL 570 -	JAC III	_	Sheet1 of <u>13</u>

ESTIMATED QUANTITIES WI CONSTRUCTION SPEC. OR SHEET JOB SHEET NUMBER ITEM UNIT QUANTITY NUMBER POND 1 2 TO 6 CLEARING ACRES 2 TO 6 1-Clearing 0.1 .1 EXCAVATION POND CUYDS 270 228 2 TO 6 2-Excavation 52 EXTRA FILL FROM PORD WAS HEED ON THE BERM FILL FOR BERM CUYDS TOPSOIL 4 INCH 2 TO 6 026-Topsoiling CUYDS 56 SEED **ACRES** 0.2 11 to 12 WI-710 SEEDING BASED ON FG SHOTS BEING CLOSE ROCK LINED WATERWAY 2,3 & 7-10 FEET 376 **EXCAVATION CUT** CUYDS 335 2.3 & 7-10 | 2-ExcavationROCK D 50 6 INCH (angular) 2,3 & 7-10 9-Rock Riprap CUYDS 238 or 8 inch Round 210 CLASS 1 NON-WOVEN 2.3 & 7-10 013-Geotextiles SOYDS 630 PLACED AS NEEDED, ASSUME VOLUME CLOSE Geotextile \ POLLUITON CONTROL OKAY 2 thru 12 5-Construction Site Pollution 1 Mobilization and 2 thru 12 7—Mobilization and 1 Demobilization Demobilization POND AND LINED Erosion Control Mat SQYDS 800 2 thru 12 LESS BLANKET WAS USED. PLANED FOR BUT DID NOT USE ALONG LINED WATERWAY. POND AREA WAS COVERED PER PLAN REQUIREMENTS. QUANTITIES ARE ESTIMATED TO THE NEAT LINES AND GRADES OF IN-PLACE MATERIALS SHOWN ON THE CONSTRUCTION PLAN UNLESS OTHERWISE STATED. TRUCK YARDAGE, LOOSEFILL, SHRINKAGE, ETC..., MUST BE CALCULATED AND COMPENSATED FOR BY THE CONTRACTOR PREPARING A BID OR CONSTRUCTING.

USDA	United States	EST	TIMATED QUANTITIES	Designed BJE	1/26/2018 WI-005A
	Department of Agriculture			Drawn	Date
Natural Re		CLIENT: _	Long Lake Township	Checked	08/14
Conservati	ion Service	COUNTY:	WASHBURN	Approved	Sheet 2 of 13

CONSTRUCTION NOTES

GENERAL NOTES:

- All underground Hazards and utilities must be investigated prior to construction. Notification of 7/27/2018 VERIFIED, CONTRACTOR DID affected utility companies is the responsibility of the contractor.
- A pre-construction meeting shall be scheduled with the Washburn County Land Conservation personnel, the contractor, and the landowner prior to construction. 7/27/2018 - STEVE MADISON
- The contractor and or landowner shall notify the Washburn County Land Conservation Department at least three days prior to the start of construction.
- All work to be performed in accordance with Wisconsin NRCS Construction Specifications.
- Seed all exposed soil areas and cover with erosion control blanket. A seeding sheet with more detail is included in the plan for this.
- Once the soil areas have become exposed place silt fence to capture and filter the runoff water. This done not have to be done if rain is not in the forecast and these areas will be seeded and covered SILT FENCE WAS NOT USED ON THE LWW OR POND AREA. LWW with erosion mat within 24 hours of soil exposure CONSTRUCTED IN 2 DAYS, AS DUG BLANKET & ROCK PLACED. CLEARED POND AREA, VEGETATION AT OUTLET MAINTAINED, THEN DUG POND AND BANK AND SEEDED, COVERED WITH E MAT IN ON

STORM WATER DETENTION POND NOTES:

- The Land Conservation Department personnel will stake the pond prior to construction when given enough time to do so (minimum of 2 days). The stakes will show the finished grade elevations.
- Excavate beyond finished grade elevations in the pond area to make room for four inches of topsoil. The four-foot level area around the top of the pond edge and the area to be seeded will also be covered with four inches of topsoil. It is not necessary to do additional excavation here but placed and then blended into the surrounding area.,
- Seed area with the included seed mix.
- Stake the erosion control blanket following the manufacturer's recommendations.

Rock Lined Waterway Notes:

- The Land Conservation Department personnel will stake the lined waterway as specified by the contractor.
- Class one non-woven geotextile will be placed underneath the rock. Verify with Land Conservation Department prior to purchasing.
- From the road edge, there will be a one-foot shoulder, then a three to one slope to a depth where the finished grade is one foot below the road, then a finished grade that is level and three feet wide for the bottom of the waterway. The outside slope of the waterway will have a two to one slope finished grade.
- For the rock use D50 6 inch angular or D50 8 inch round. Verify gradation and suitability with Land Conservation personnel prior to purchasing. 8 INCH ANGULAR WAS USED
- The volume of the waterway will be consistent throughout the entire waterway. YES, REASONABLE WELL
- At the bottom of the waterway there is a level section referred to as the plunge pool. It is a level area running longitudinally for ten feet. Except for it being level construction here is the same as the other cross sections, side slope, depth, bottom and width. YES, REASONABLE WELL

United States Department o	T CONSTRUCTION NOTES	Date Designed BJE 1/26/2018	File Name
Agriculture	Long Lake Township	Drawn	Date 08/14
Natural Resources Conservation Service	COUNTY: WASHBURN	Approved	Sheet 3 of 13

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Sheet XX of 13

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File Name

Date

1/26/2018 WI-007

United States Department of Agriculture



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COUNTY: COUNTY: MASHBURN

Natural Resources Conservation Service

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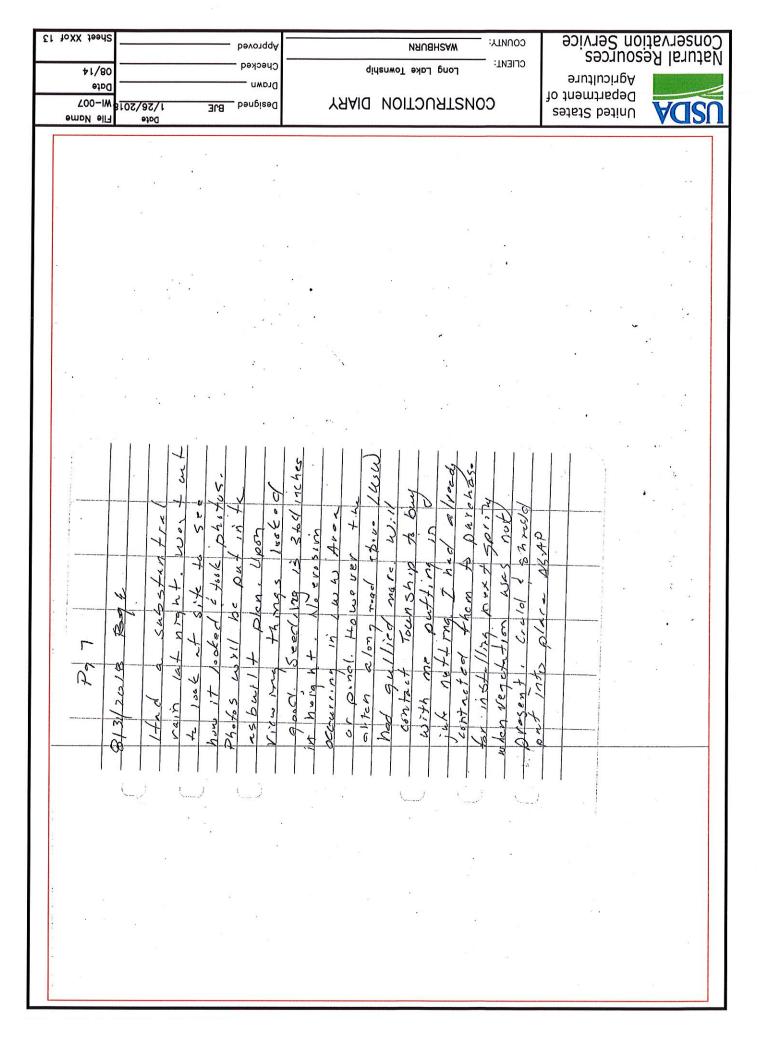


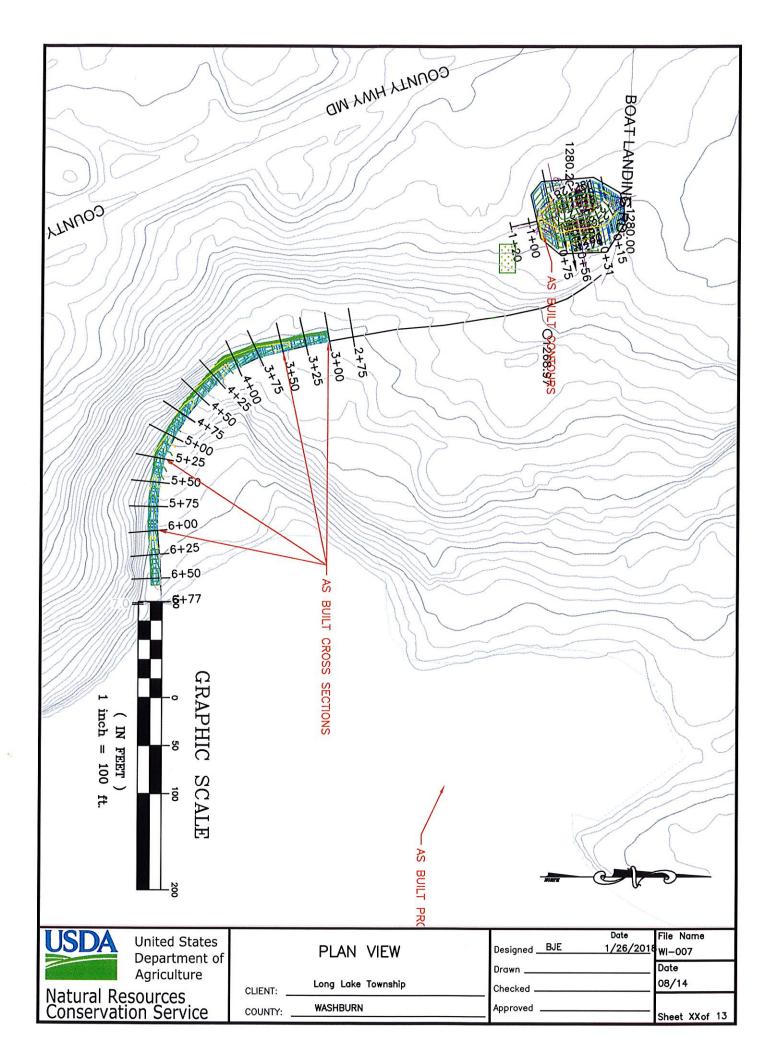
Natural Resources Conservation Service

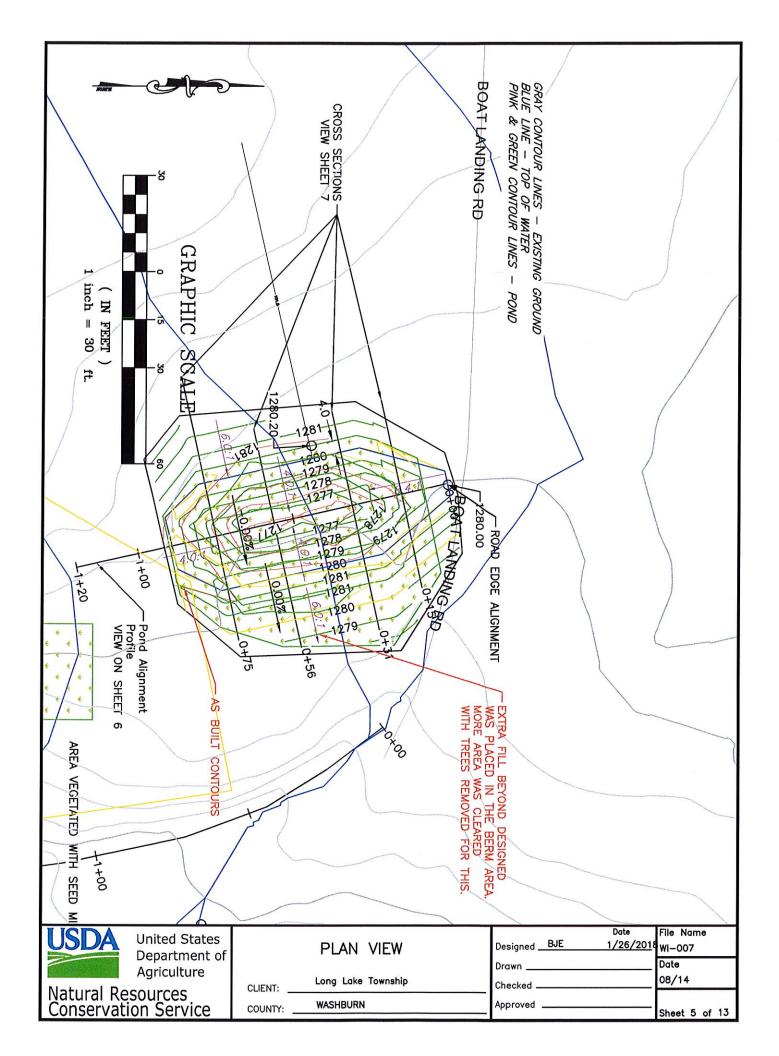
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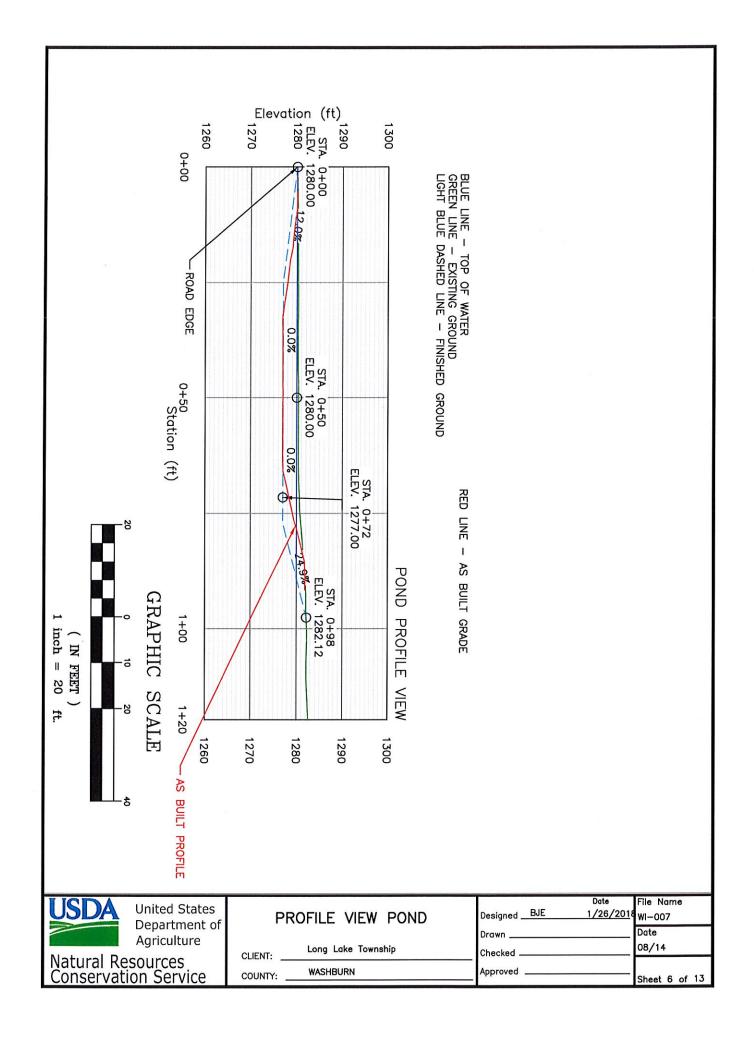
United States Department of Agriculture

Natural Resources Conservation Service PLAN VIEW PONDS AS BUILT PHOTOS

CLIENT: Long Lake Township

COUNTY: WASHBURN

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United States Department of Agriculture

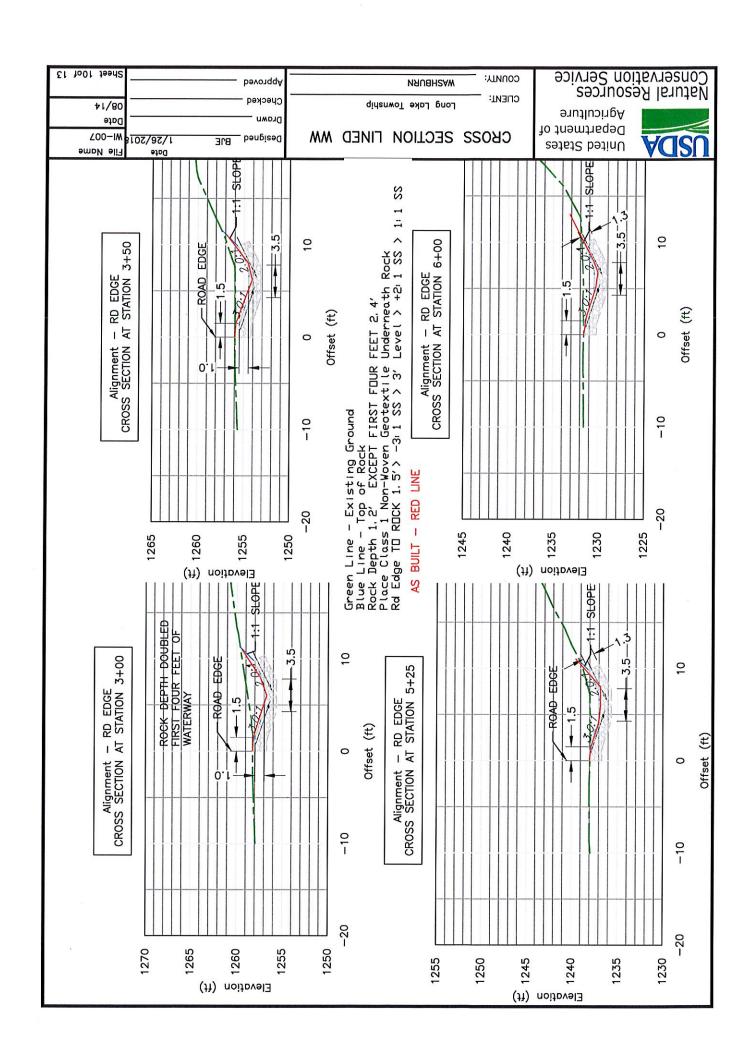
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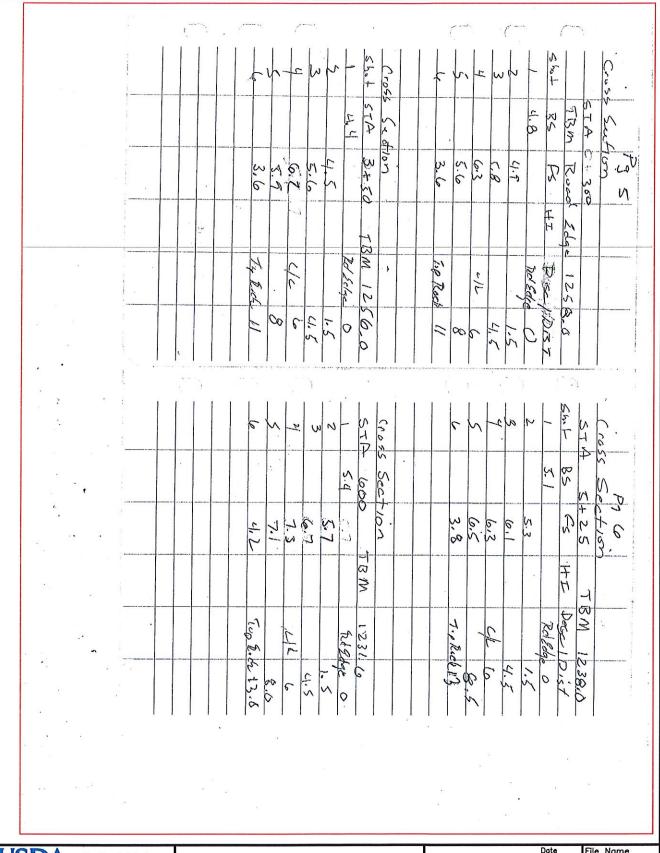
PLAN VIEW LWW AS BUILT PHOTOS

CLIENT: Long Lake Township

COUNTY: WASHBURN

Designed BJE	1/26/2018 WI-002	
Drawn	Date 08/14	
Approved	Sheet XX of 13	5





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United States Department of Agriculture

Natural Resources Conservation Service

AS	BUILT	LWW	SURVEY	NOTES

CLIENT: Long Lake Township

COUNTY: WASHBURN

Designed _	BJE	Date 1/26/2018	File Name WI-007
Drawn Checked _			Date 08/14
Approved			Sheet XXof 13

NORTH SEEDING DATES TIME PERIOD DATES TYPE OF SEEDING Spring May 1 through June 15 Permanent see WI-710ss pg 2 June 16 Temporary Summer through Late Summer July 15 through August 10 Permanent see WI-710ss pg 2 Temporary ' Fall August 11 through Late Fall November 1 through Snow Cover Dormant Winter Snow Cover through April 30 Not Allowed **MATERIALS** If no soil test is available, apply a minimum of 150 pounds of 20-10-10 fertilizer per acre. This is equivalent to 30 pounds nitrogen (N), 15 pounds phosphate (P205), and 15 pounds potash (K2O) per acre. Apply two tons of 80-89 lime or equivalent. * Seed a temporary cover crop of Winter Cereal Rye at 112 # /ac (A permanent seeding shall be completed during the next acceptable time period following a temporary seeding. - USED ALONG LWW & POND MINIMUM PURE LIVE SEED (PLS) 1 RATE PER ACRE AND TOTAL POUNDS OF SEED NEEDED LOCATION: POND & WW SEEDING MIX 16 SEEDING MIX LOCATION (DESIGN) A CRES: 2.00 (AS-BUILT) **ACRES** SPECIES RATE **POUNDS** SPECIES RATE **POUNDS** Tall Fescue 5.0 10.0 Timothy 3.0 6.0 3.0 Perennial Ryegrass 6.0 Red Clover 3.0 6.0 Smooth Bromegrass 6.0 12.0 Kentucky Bluegrass 2.0 4.0 Oats 64.0 128.0 1 PLS = (% Germination x % Purity) ADDITIONAL SEED PERCENTAGE: ** Companion Crop Mulching Required USE EROSION MAT Additional native seeds may be required by permitting agencies. These addition are allowed. SEED MIX CHANGED, WILL USE A NATIVE Seed mixture shall meet all requirements of the WI weed laws. Species identified as restricted or prohibited by law shall not be planted. SEED MIX INSTEAD. TOWN WILL ORDER AND I WILL PLANT IN OCTOBER. Certified seed shall be used, and the seeding rates will be based on pure USED A TEMPORARY COVER CROP For dormant seedings, increase the seeds per square foot by 15%. SEEDBED PREPARATION Seedbed preparation shall immediately follow construction activities. Prepare a fine, firm seedbed to a minimum depth of three inches. A seedbed is considered firm when a footprint penetrates 1/4 to 1/2 inch deep. SEEDING Inoculate legumes with the specific inoculum for the species in accordance with the manufacturer's recommendations. When using a hydroseeder, five times the recommended rate of inoculant shall be added to the hydroseeder. Inoculant shall not be mixed with liquid fertilizer. Seed may be broadcast or drilled as appropriate to the site. Seed, fertilize, and lime as soon as possible after construction. Seeding perpendicular to direction of flow is required to limit erosion. Date File Name United States INTRODUCED SPECIES Designed BJE 1/26/201 WI-710 Department of SEEDING ESTABLISHMENT Date Drawn Agriculture Long Lake Township 08/14 Checked CLIENT: Natural Resources WASHBURN Approved COUNTY:

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Conservation Service